



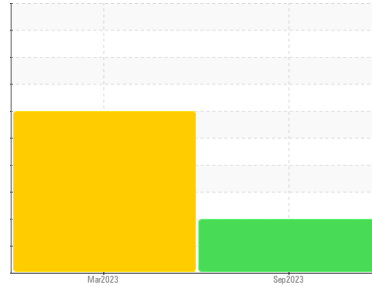
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id
711018
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)



DIAGNOSIS

Recommendation

Vérifier les scelles et/ou les filtres pour des points d'entrée des contaminants. Le reniflard d'air doit être réparé. S'il n'est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessicant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il y a une grande quantité de limon (particules de 4 à 14 microns) dans l'huile.

Fluid Condition

L'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0088830	GFL0047505	---
Sample Date	Client Info		07 Sep 2023	21 Mar 2023	---
Machine Age	hrs	Client Info	85850	3600	---
Oil Age	hrs	Client Info	0	1200	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
Sample Status			SEVERE	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	6	10	---
Chromium	ppm	ASTM D5185(m) >10	<1	<1	---
Nickel	ppm	ASTM D5185(m) >4	0	0	---
Titanium	ppm	ASTM D5185(m)	0	<1	---
Silver	ppm	ASTM D5185(m)	0	<1	---
Aluminum	ppm	ASTM D5185(m) >5	<1	1	---
Lead	ppm	ASTM D5185(m) >4	0	<1	---
Copper	ppm	ASTM D5185(m) >15	1	2	---
Tin	ppm	ASTM D5185(m) >4	0	<1	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<1	<1	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 0	3	0	---
Manganese	ppm	ASTM D5185(m) 1	0	<1	---
Magnesium	ppm	ASTM D5185(m) 0	50	1	---
Calcium	ppm	ASTM D5185(m) 50	112	53	---
Phosphorus	ppm	ASTM D5185(m) 330	406	347	---
Zinc	ppm	ASTM D5185(m) 430	477	386	---
Sulfur	ppm	ASTM D5185(m) 760	897	766	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

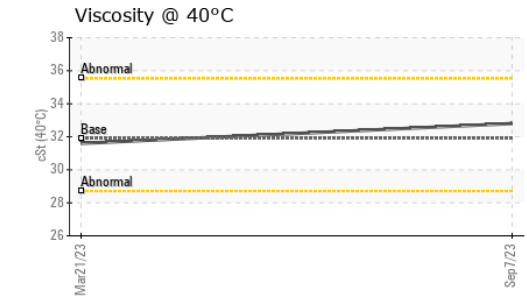
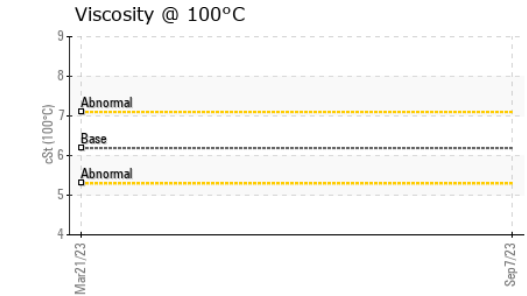
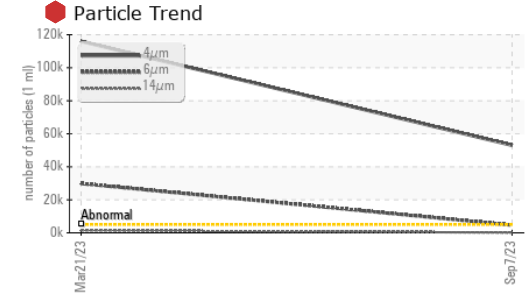
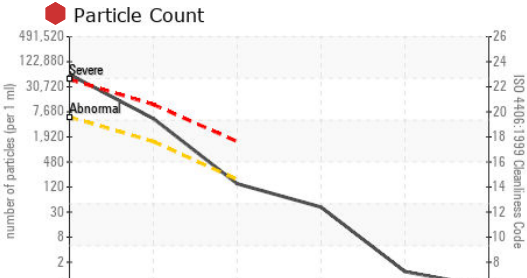
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	2	4	---
Sodium	ppm	ASTM D5185(m)	6	15	---
Potassium	ppm	ASTM D5185(m) >20	1	2	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	---	---
Nitration	Abs/cm	ASTM D7624*	1.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	17.5	---	---



OIL ANALYSIS REPORT



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	52997	116032	---	
Particles >6µm	ASTM D7647	>1300	4632	29849	---	
Particles >14µm	ASTM D7647	>160	127	1429	---	
Particles >21µm	ASTM D7647	>40	35	267	---	
Particles >38µm	ASTM D7647	>10	1	11	---	
Particles >71µm	ASTM D7647	>3	0	1	---	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/19/14	24/22/18	---	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		9.7	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	32.8	31.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.19	6.2	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	147	140	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste
Sample No. : GFL0088830 **Received** : 12 Sep 2023 4365 boul. St-Elzear Ouest, Laval, QC
Lab Number : 02581861 **Diagnosed** : 13 Sep 2023 CA H7P 4J3
Unique Number : 5642926 **Diagnostician** : Wes Davis Contact: Pieces Laval
Test Package : MOB 1 (Additional Tests: FT-IR, KV100, PrtCount, VI) pieces.laval@gflenv.com
 T: (450)687-3838
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.